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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,111	09/08/2003	Francesco Salituro	VPI/98-11 DIV	9944
1473	7590 01/05/2006	;	EXAMINER	
FISH & NEAVE IP GROUP			RAO, DEEPAK R	
ROPES & GRAY LLP 1251 AVENUE OF THE AMERICAS FL C3			ART UNIT	PAPER NUMBER
NEW YORK, NY 10020-1105			1624	

DATE MAILED: 01/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Comment		10/658,111	SALITURO ET A	SALITURO ET AL.	
	Office Action Summary	Examiner	Art Unit		
		Deepak Rao	1624		
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover	sheet with the correspondence a	ddress	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic operiod for reply is specified above, the maximum statutor are to reply within the set or extended period for reply will, I reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS CO CFR 1.136(a). In no event, howevalution. The period will apply and will expire Soby statute, cause the application to	MMUNICATION. /er, may a reply be timely filed IX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).		
Status					
1)[\]	Responsive to communication(s) filed o	n 13 December 2005			
2a)[_	This action is non-fina	1		
3)	Since this application is in condition for			e merits is	
٠,۵	closed in accordance with the practice u	·	· ·		
Disnosit	ion of Claims	ac. zx pane quayic, .	000 0.0. 11, 100 0.0. 210.		
·		Alexander Pero Pero			
	Claim(s) <u>11-25 and 30</u> hare pending in		*ion		
	4a) Of the above claim(s) is/are w	minurawn from considera	uon.		
· · · · ·	Claim(s) is/are allowed.				
· · · · · · · · · · · · · · · · · · ·	Claim(s) 11-25, 30 \(\text{Are rejected.} \)				
7)	Claim(s) is/are objected to.				
8)[Claim(s) are subject to restriction	and/or election requiren	nent.		
Applicat	ion Papers				
9)[The specification is objected to by the Ex	kaminer.			
10)	The drawing(s) filed on is/are: a)	accepted or b) obje	ected to by the Examiner.		
	Applicant may not request that any objection	to the drawing(s) be held i	n abeyance. See 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the	correction is required if the	drawing(s) is objected to. See 37 C	FR 1.121(d).	
11)	The oath or declaration is objected to by	the Examiner. Note the	attached Office Action or form P	TO-152.	
Priority ι	under 35 U.S.C. § 119				
-	Acknowledgment is made of a claim for t ☐ All b)☐ Some * c)☐ None of:	foreign priority under 35	U.S.C. § 119(a)-(d) or (f).		
	1. Certified copies of the priority doc	uments have been recei	ved.		
	2. Certified copies of the priority doc				
	3. Copies of the certified copies of the			l Stage	
	application from the International	•		· Glago	
* 5	See the attached detailed Office action fo	,	**		
Attachmen	t(s)				
_	ce of References Cited (PTO-892)	4) 🔲 I	nterview Summary (PTO-413)		
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-	948) F	Paper No(s)/Mail Date	O 450)	
	mation Disclosure Statement(s) (PTO-1449 or PTC rr No(s)/Mail Date	·· · · · -	Notice of Informal Patent Application (PT Other:	U-152)	
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DETAILED ACTION

This office action is in response to the amendment filed on December 13, 2005.

Claims 11-25 and 30 are pending in this application.

Upon reconsideration, the finality of the previous office action is withdrawn, in view of the following rejections under new grounds.

Withdrawn Rejections/Objections:

Applicant is notified that any outstanding rejection/objection that is not expressly maintained in this office action has been withdrawn or rendered moot in view of applicant's amendments and/or remarks.

The following rejections are under new grounds:

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 11-25 and 30 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a compound of formula (I), does not reasonably provide enablement for the instantly claimed compounds of formula (III) or the tautomers thereof or the pharmaceutically acceptable salts thereof. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

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In evaluating the enablement question, several factors are to be considered. Note *In re Wands*, 8 USPQ2d 1400 and *Ex parte Forman*, 230 USPQ 546. The factors include: 1) The nature of the invention, 2) the state of the prior art, 3) the predictability or lack thereof in the art, 4) the amount of direction or guidance present, 5) the presence or absence of working examples, 6) the breadth of the claims, and 7) the quantity of experimentation needed. The determination that "undue experimentation" would have been needed to make and use the claimed invention is not a single, simple factual determination. Rather, it is a conclusion reached by weighing all the above noted factual considerations.

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The specification fails to enable the preparation of the entire scope of the claimed compounds. The process scheme in Example 1 of the specification provides the essential starting materials to prepare the claimed compounds of formula (I) having a bicyclic ring system, however, there is no disclosure of the sources of starting materials needed to prepare for compounds of formula (I) or the tautomers thereof. The specification does not provide any explanation or sources required to prepare the compounds of formula (III) having a monocyclic pyridyl ring. The only disclosed synthetic example is drawn to a bicyclic compound and the specification does not provide the required starting materials to prepare the instantly claimed compounds of formula (III), to enable a person of ordinary skill to prepare the compounds of the claimed structural formula. In view of the lack of direction provided in the specification regarding starting materials, the lack of working examples and the general unpredictability of chemical reactions, it would take an undue amount of experimentation for one skilled in the art to make the claimed compounds and therefore practice the invention. The starting material sources necessary to obtain the instant compounds must have been available as of the filing date

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in order to provide an enabling disclosure. See *In re Howarth*, 654 F.2d 103, 210 USPQ 689 (CCPA 1981); *Ex parte Moersch*, 104 USPQ 122 (POBA 1954). Applicants should show that the sources of these starting materials was common knowledge or readily available at the time of filing.

The specification fails to enable one skilled in the art to use the claimed compounds. The use disclosed in the specification is as p38 inhibitors useful to treat inflammatory diseases, etc., see page 20. Test assays to measure the activity are provided at pages 34+ of the specification, however, none of the instantly claimed compounds of formula (III) have been tested for activity. All the compounds actually tested are structurally very different from the compounds commensurate in scope of the claims. Receptor activity is generally unpredictable and highly structure specific area. In view of the breadth of the claims, the chemical nature of the invention, the unpredictability of ligand-receptor interactions in general, and the lack of working examples regarding the activity of the claimed compounds, one having ordinary skill in the art would have to undergo undue amount of experimentation to use the claimed compounds as p38 inhibitors.

There is no reasonable likelihood of success in the use of the compounds commensurate in scope of the claims for the disclosed activity and resulting therapeutic applications.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:

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1. Claim 17 recites the limitation "The compound according to claim 11" and discloses 'Compound 15'. There is insufficient antecedent basis for 'compound 15' in compounds of claim 11. As per claim 11, Q₂ is always substituted with J wherein J is a C₁-C₄ alkyl substituted with substituents selected from A, -T-C(O)R' or -OPO₃H₂. Compound 15 of claim 17 has a group -CH₂-O-C(O)-CH₂-NH₂ substituted on Q₂ ring and it does not correspond to any of the groups defined under J.

2. Claim 20 recites the limitation "The compound according to claim 11" and discloses 'Compound 18'. There is insufficient antecedent basis for 'compound 18' in compounds of claim 11. As per claim 11, Q₂ is always substituted with J wherein J is a C₁-C₄ alkyl substituted with substituents selected from A, -T-C(O)R' or -OPO₃H₂. Compound 18 of claim 20 has a group -CH₂-NH-CH₂-C(O)-OEt substituted on Q₂ ring and it does not correspond to any of the groups defined under J.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deepak Rao whose telephone number is (571) 272-0672. The examiner can normally be reached on Tuesday-Friday from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson, can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Deepak Rao Primary Examiner

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December 30, 2005